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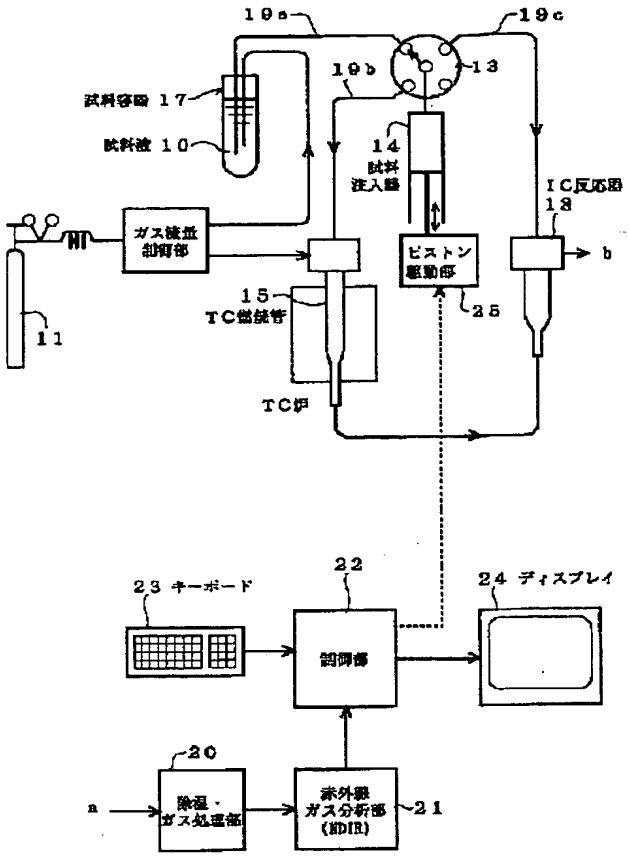
TITLE : CARBON CONTENT MEASURING INSTRUMENT



ABSTRACT : PURPOSE: To accurately measure the carbon content of a sample liquid with one set of instrument regardless of the kind of suspended solids by controlling the injecting quantity of the sample liquid into a combustion tube and reactor in accordance with the presence/absence and contents of suspended solids contained in the sample liquid.

CONSTITUTION: A total organic carbon meter is constituted in such a way that a sample injecting quantity can be set in a control section 22 in accordance with the aperture of a pipeline 19b or 19c for transferring a sample liquid 10 through a keyboard 23 and the optimum sample injecting quantity can be automatically set by only inputting 23 the kind of the pipeline 19b or 19c. The section 22 controls a piston driving section 25 in accordance with a set sample injecting quantity and operates a sample injector 14 so that the liquid 10 can be injected into a TC combustion tube 15 or IC reactor 18 at the optimum injecting quantity in accordance with the aperture of the pipeline 19a or 19b. Therefore, CO_2 is continuously generated and the carbon content of the sample liquid 1 can be accurately measured, since the sample liquid 10 is continuously supplied to the tube 15 or rector 18 even when the cross section of the sample flowing passage is changed to an appropriate size in accordance with the presence/ absence and contents (shape, size, etc.,) of suspended solids.

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